IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Complete Listing of Claims:

55. (Currently Amended) A system for cleaning substrates comprising:

a non-pressurizable cleaning vessel adapted to hold contaminated substrates and organic solvent;

an organic solvent tank operatively connected to the cleaning vessel;

a pump or compressor for moving ~~pumping~~ organic solvent from the organic solvent tank to the cleaning vessel;

a pressurizable drying vessel adapted to hold cleaned substrates and pressurized fluid solvent;

a pressurized fluid solvent tank operatively connected to the drying vessel; and

a pump or compressor for moving ~~pumping~~ pressurized fluid solvent from the pressurized fluid solvent tank to the drying vessel.

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108. (New) The system of claim 55 further comprising a cleaning unit within the non-pressurizable cleaning vessel.

109. (New) The system of claim 108 wherein the cleaning unit is operatively connected to the non-pressurizable cleaning vessel.

110. (New) The system of claim 109 wherein the cleaning unit is rotatable.

111. (New) The system of claim 109 wherein the cleaning unit is perforated.

112. (New) The system of claim 109 wherein the cleaning unit comprises a drum or a wheel.

113. (New) The system of claim 109 wherein the cleaning unit is operatively connected to the non-pressurizable cleaning vessel via one or more motor activated shafts.

114. (New) The system of claim 55 wherein the non-pressurizable cleaning vessel comprises an inlet and an outlet through which cleaning fluids can pass.

115. (New) The system of claim 55 further comprising a filtration assembly operatively connected to the non-pressurizable cleaning vessel.

116. (New) The system of claim 116 wherein the filtration assembly comprises at least one filter selected from a mesh filter, and adsorptive filter or an absorptive filter.

117. (New) The system of claim 55 further comprising a drying unit within the pressurizable drying vessel.

118. (New) The system of claim 117 wherein the drying unit is operatively connected to the pressurizable drying vessel.

119. (New) The system of claim 118 wherein the drying unit is rotatable.

120. (New) The system of claim 118 wherein the drying unit is perforated.

121. (New) The system of claim 118 wherein the drying unit comprises a drum or a wheel.

122. (New) The system of claim 118 wherein the drying unit is operatively connected to the pressurized drying vessel via one or more motor activated shafts.

123. (New) The system of claim 55 wherein the pressurizable drying vessel comprises an inlet and an outlet through which pressurized fluids can pass.

124. (New) The system of claim 55 wherein the organic solvent tank contains an organic solvent.

125. (New) The system of claim 124 wherein the organic solvent comprises a glycol ether, a cyclic terpene, a halocarbon, a polyol, an ether, an ester of a glycol ether, a fatty alcohol, a short chain alcohol, a siloxane, a hydrofluoroether, an aliphatic hydrocarbon, an ester of dibasic carboxylic acids, a ketone, an aprotic solvent or mixtures thereof.

126. (New) The system of claim 125 wherein the organic solvent comprises a glycol ether.

127. (New) The system of claim 126 wherein the glycol ether:

is soluble in carbon dioxide between 600 and 1050 pounds per square inch and between 5 and 30 degrees Celsius;

has a specific gravity of greater than approximately 0.800;

has a dispersion Hansen solubility parameter of between 13.0 $(MPa)^{1/2}$ and 19.5 $(MPa)^{1/2}$;

has a polar Hansen solubility parameter of between 3.0 $(MPa)^{1/2}$ and 7.5 $(MPa)^{1/2}$; and

has a hydrogen bonding Hansen solubility parameter of between 8.0 $(MPa)^{1/2}$ and 17.0 $(MPa)^{1/2}$.

128. (New) The system of claim 126 wherein the glycol ether has an evaporation rate of lower than 50 (based on n-butyl acetate = 100) and has a flash point greater than 100 degrees Fahrenheit.

129. (New) The system of claim 55 wherein the pressurized fluid solvent tank comprises pressurized fluid solvent.

130. (New) The system of claim 129 wherein the pressurized fluid solvent comprises carbon dioxide, xenon, nitrous oxide, or sulfur hexaflouride.

131. (New) The system of claim 129 wherein the pressurized fluid solvent comprises carbon dioxide.

132. (New) The system of claim 131 wherein the carbon dioxide is densified.